

FIG. 1

GLPII

His Ala Asp Gly Ser Phe Ser Asp Glu Met Asn Thr Ile Leu Asp Asn Leu Ala Thr Arg  
 CAT GCT GAT GGA TCC TTC TCT GAT GAG ATG AAC ACG ATT CTC GAT AAC CTT GCC ACC AGA 555

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155  
 Asp Phe Ile Asn Trp Leu Ile Gln Thr Lys Ile Thr Asp Lys Lys End  
 GAC TTC ATC AAC TGG CTG ATT CAA ACC AAG ATC ACT GAC AAG AAA TAG gaatattcaccatt 618

cacaaccatcttcacaacatctcctgcccagtcacttgggatgtacatttgagagcatatccgaagctatactgcttgc 697

atgcggacgaatacatattccctttagcgttgtgttaacccaaagggtgtataatggataaaaagttttccagggtgtgat 776

aaagtaacaaactttacagtatgaaaaatgctggattctcaaatgtctcctcgttttgaagttaccgccctgagattact 855

tttctgtggtataaattgtataattatcgcagtcacgacacctggattacaacaacagaacatggtaacctggtaacc 933

gtagtgtggaacctggaaagagaacttcttcccttgaaccccttgtcataaaatgcgctcagctttcaatgtatcaagaat 1012

agatttaataataatatctcat 1024

3'

FIG. 1 CONT.

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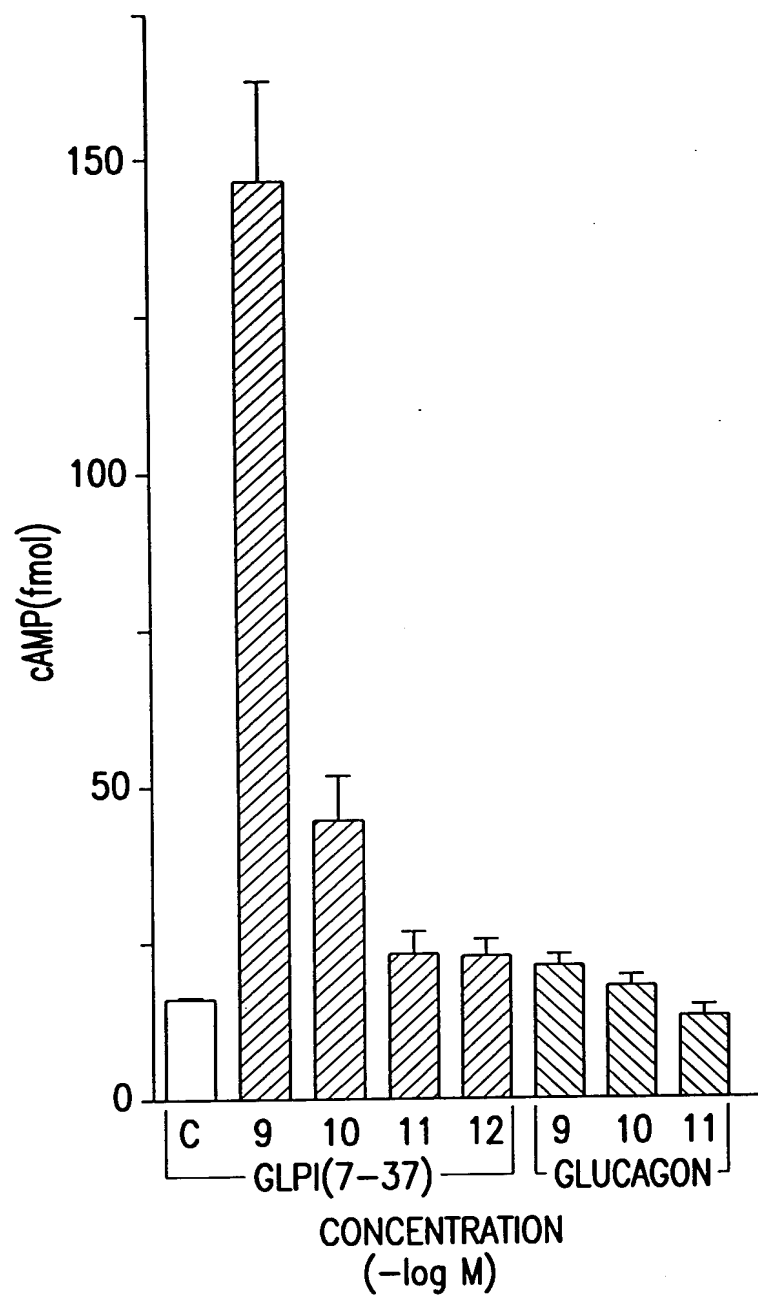


FIG.2

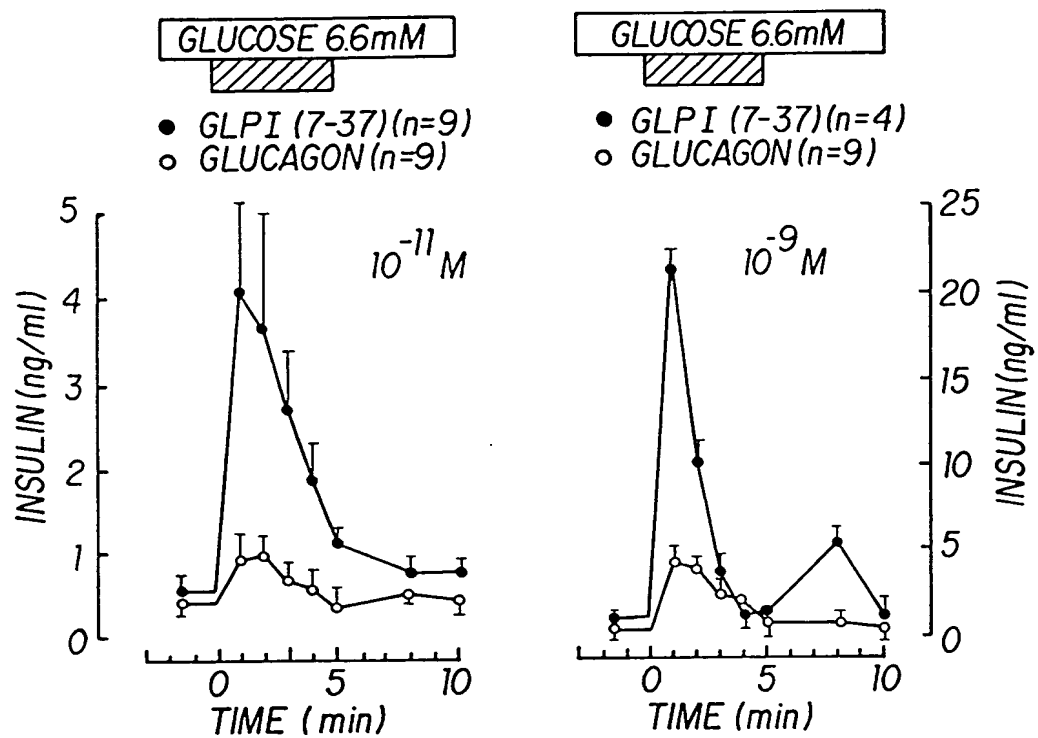


FIG. 3

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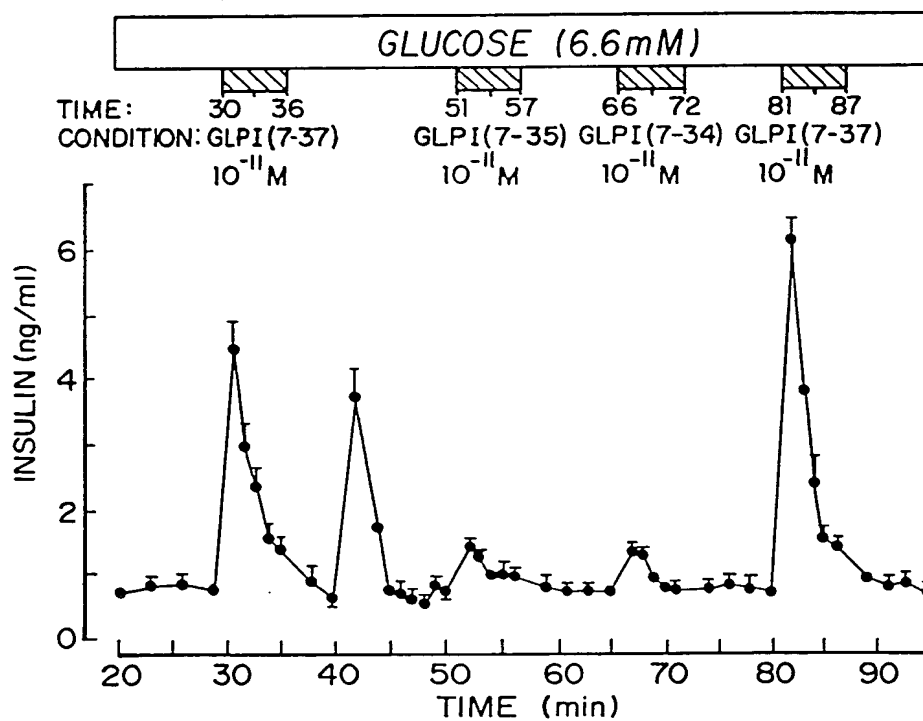


FIG.4

**FIG. 5**

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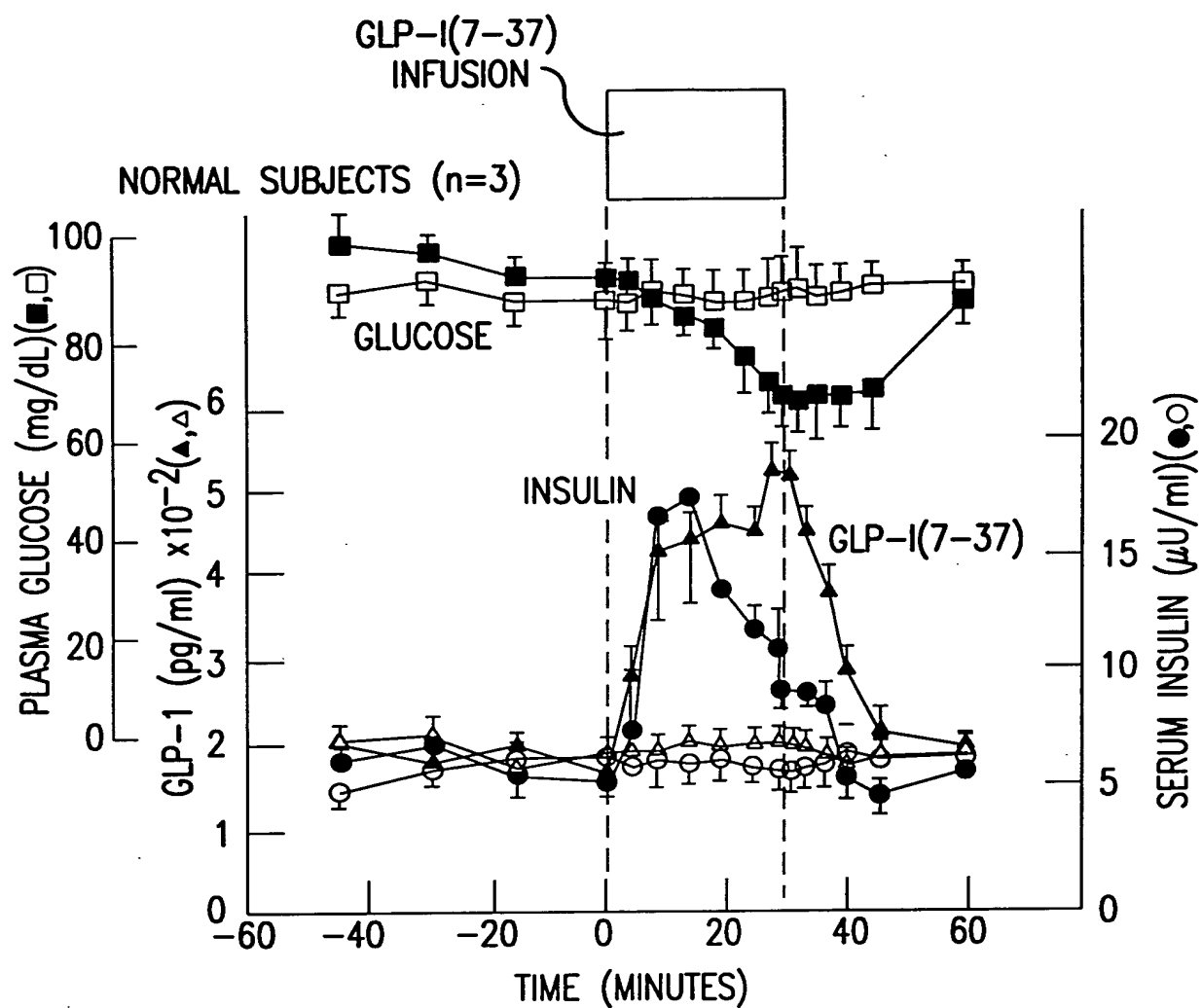


FIG.6

Figure 1 is a line graph showing plasma glucose levels (mg/dL) over time (minutes) for two groups: SALINE and GLP-I(7-37). The SALINE group (open squares) maintains higher glucose levels than the GLP-I(7-37) group (filled squares). A bar graph at the bottom indicates the timing of GLP-I(7-37) infusion, which starts at 0 minutes and ends at 30 minutes.

Time (minutes)	SALINE (mg/dL)	GLP-I(7-37) (mg/dL)
-30	210	200
-15	205	195
0	200	195
5	200	195
10	200	195
15	200	190
20	200	185
25	200	180
30	200	175
35	200	170
40	200	170
45	200	170
60	185	165
90	165	155
120	165	155

Figure 1 is a line graph showing serum insulin levels (μU/ml) over time (minutes) for two groups: GLP-I(7-37) and SALINE. The Y-axis represents serum insulin levels in μU/ml, ranging from 6 to 58. The X-axis represents time in minutes, ranging from -60 to 120. The GLP-I(7-37) group (solid line with filled circles) shows a significant increase in insulin levels starting around 0 minutes, peaking at approximately 55 μU/ml at 30 minutes, and then declining. The SALINE group (dashed line with open circles) shows a much lower and more stable insulin level, peaking at approximately 16 μU/ml around 30 minutes. Error bars represent standard error.

Time (minutes)	GLP-I(7-37) (μU/ml)	SALINE (μU/ml)
-60	11.5	10.5
-45	14.0	15.0
-30	15.5	14.0
-15	13.5	12.5
0	14.0	11.5
5	31.0	13.5
10	43.0	16.0
15	43.0	14.5
20	43.0	16.5
25	55.0	16.5
30	49.0	16.0
35	38.5	15.0
40	42.5	15.5
45	25.0	15.0
60	14.0	16.0
90	9.0	7.0
120	10.5	7.5

FIG. 7A



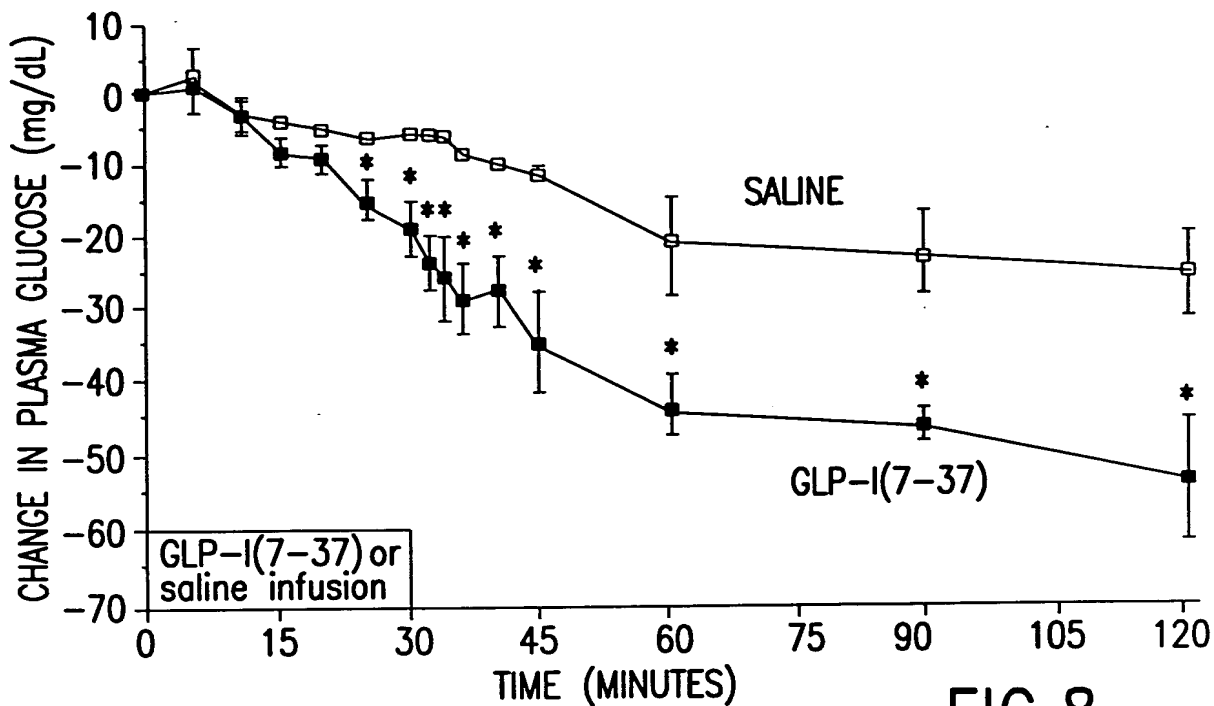


FIG.8

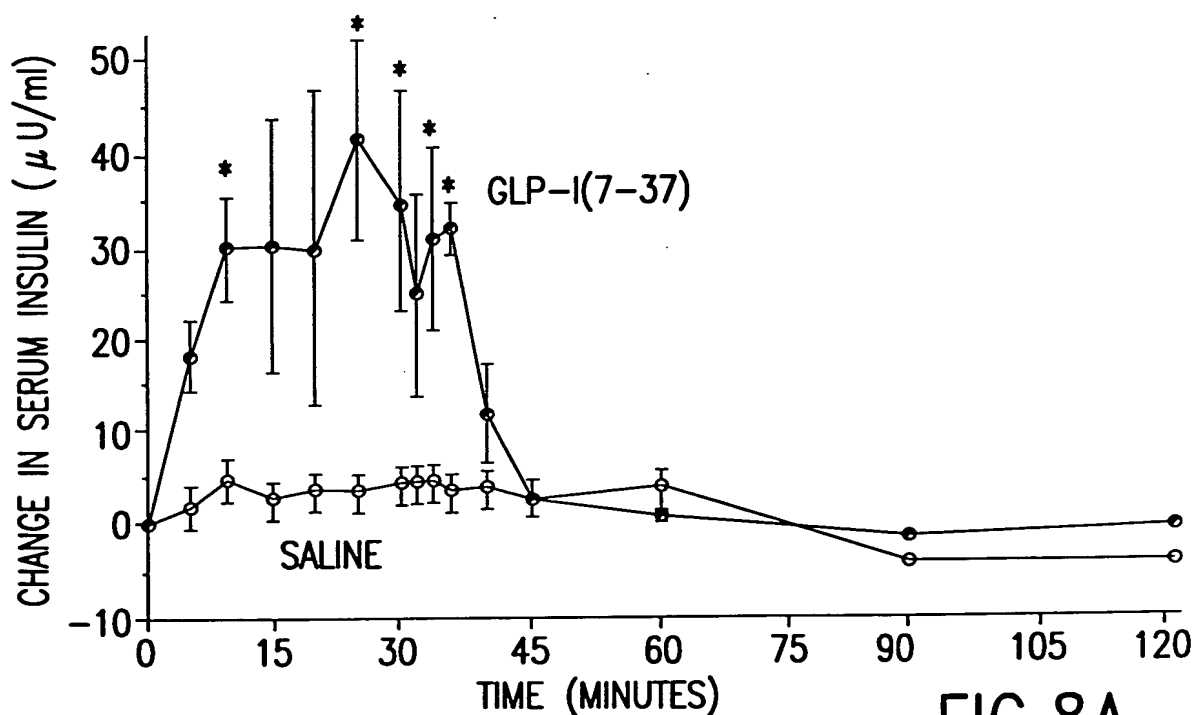


FIG.8A

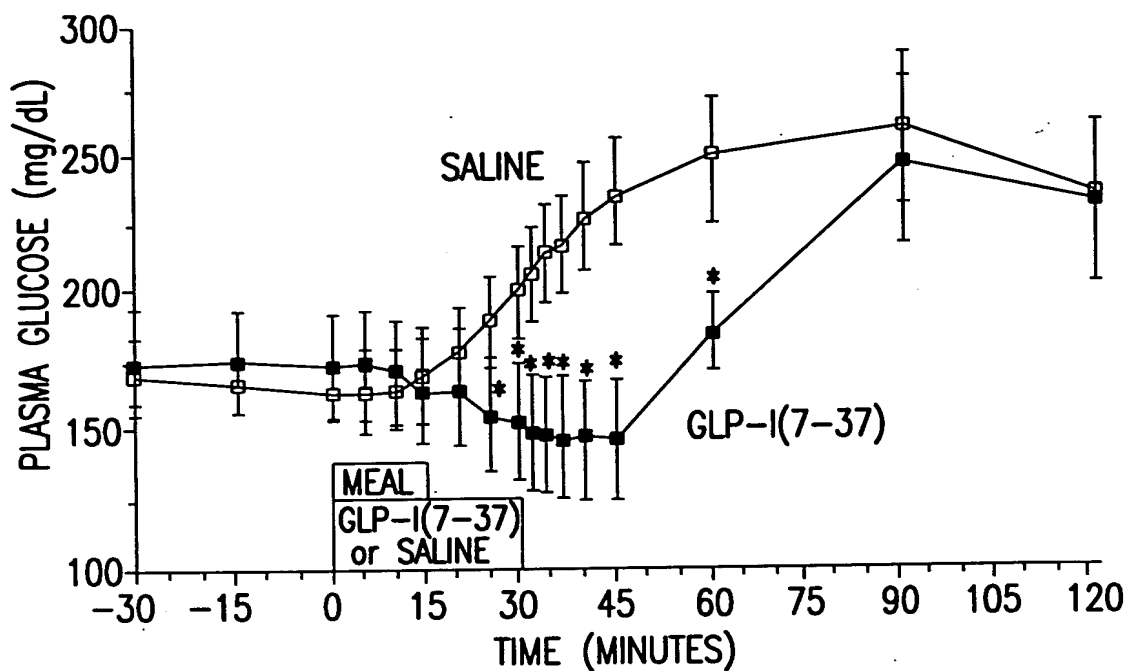


FIG.9

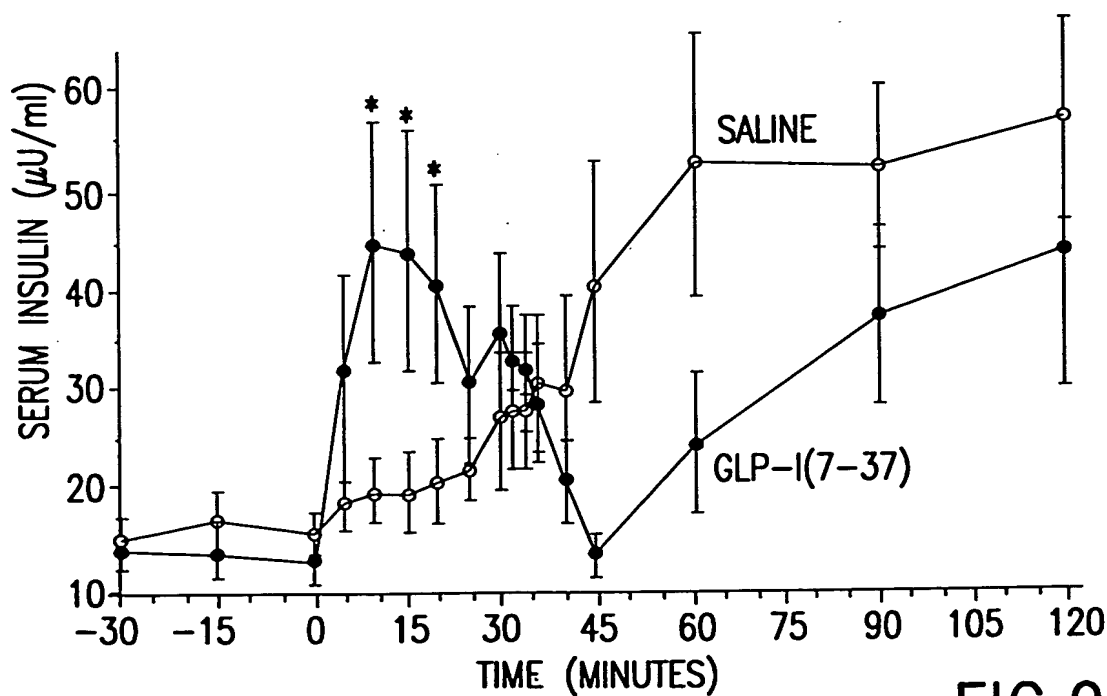


FIG.9A

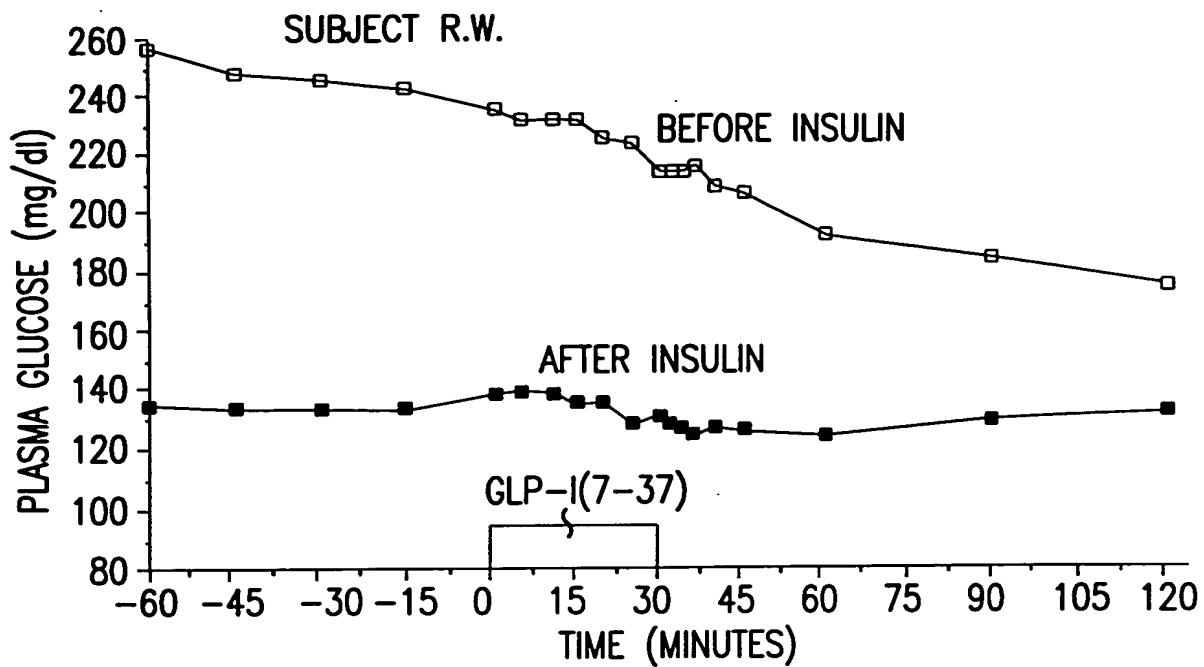


FIG.10

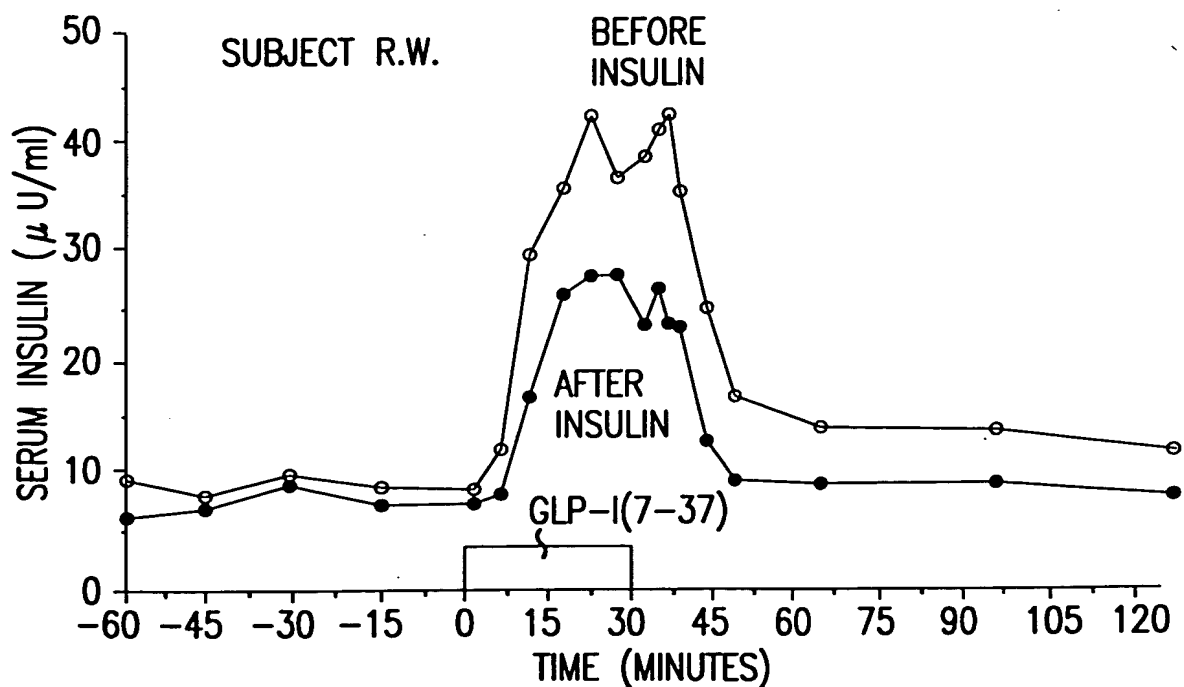


FIG.10A

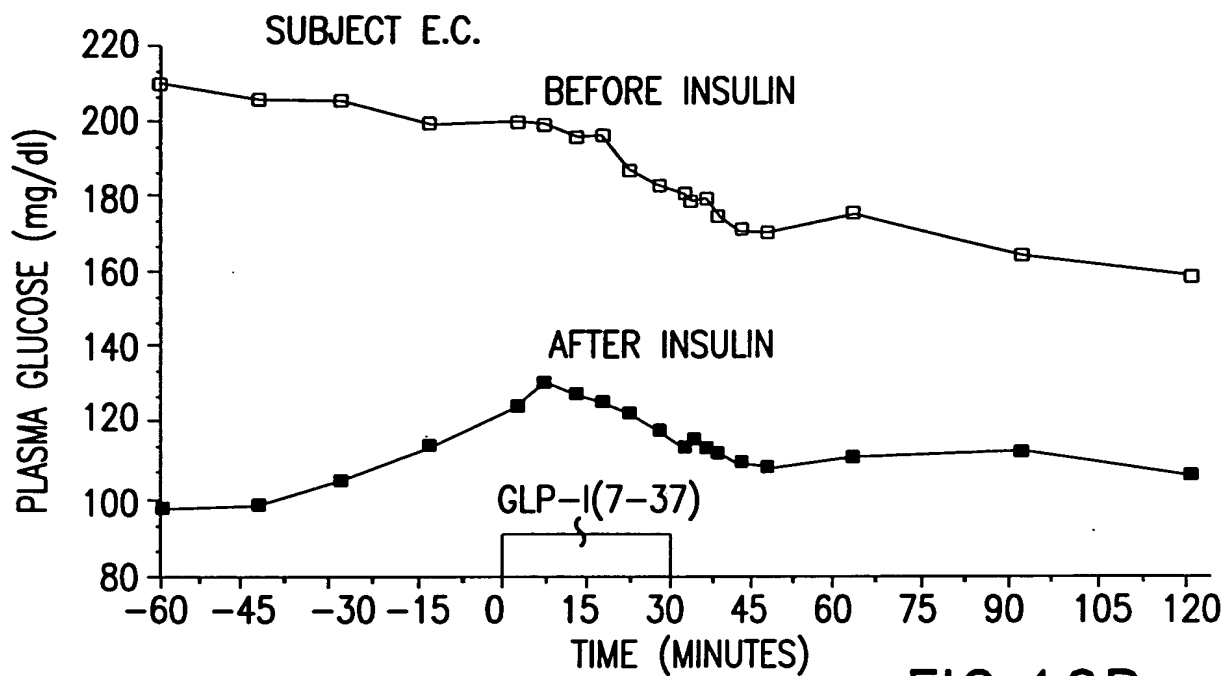


FIG.10B

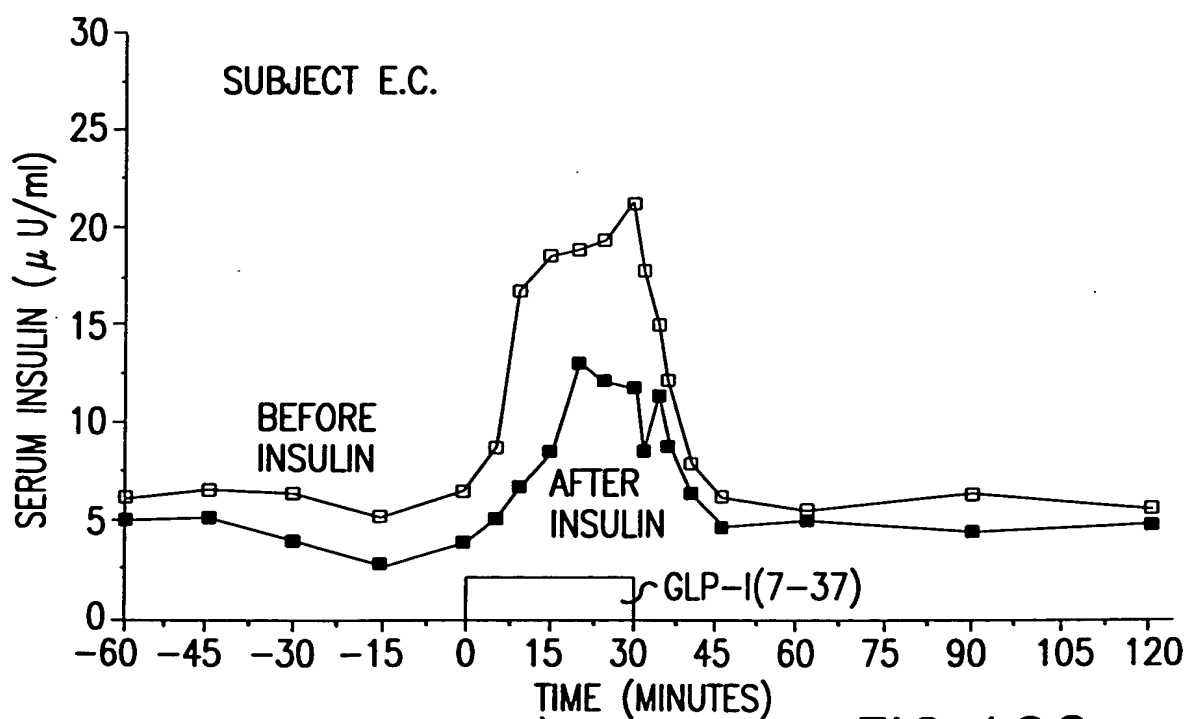


FIG.10C

Treatment	CAT-activity (fold induction)
FORSKOLIN	~3.3
IBMX	~2.6
GLP-1(7-37)	~2.3
8-Br-cAMP	~2.1

-LOG M GLP-1(7-37)	Fold Induction (approx.)
10	1.35
9	1.50
8	2.10
7	1.80
6	1.65

FIG.12

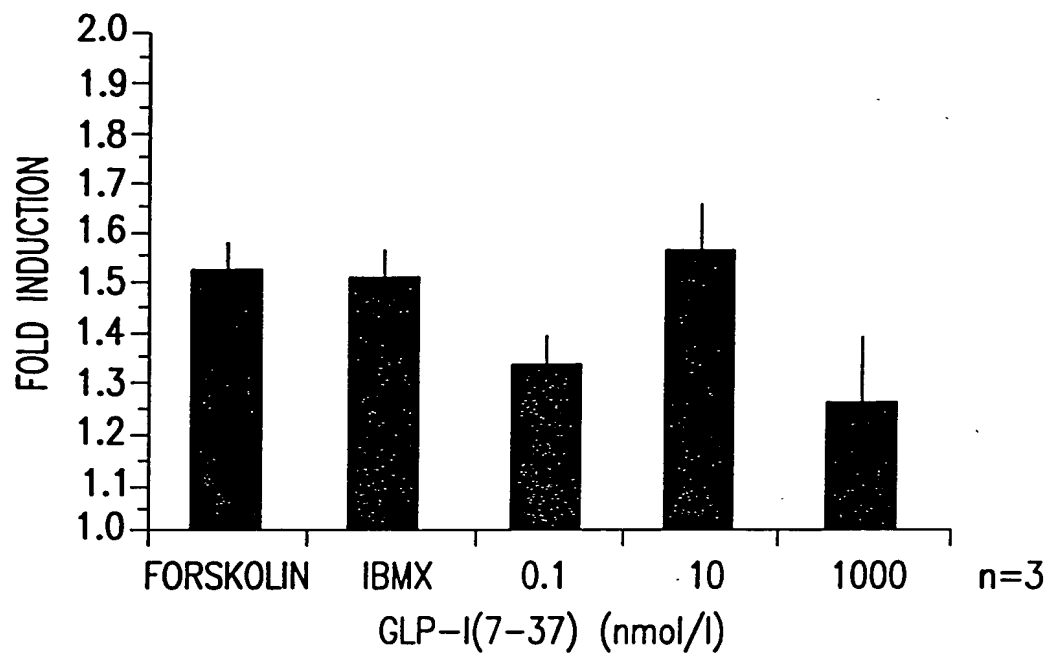


FIG.13

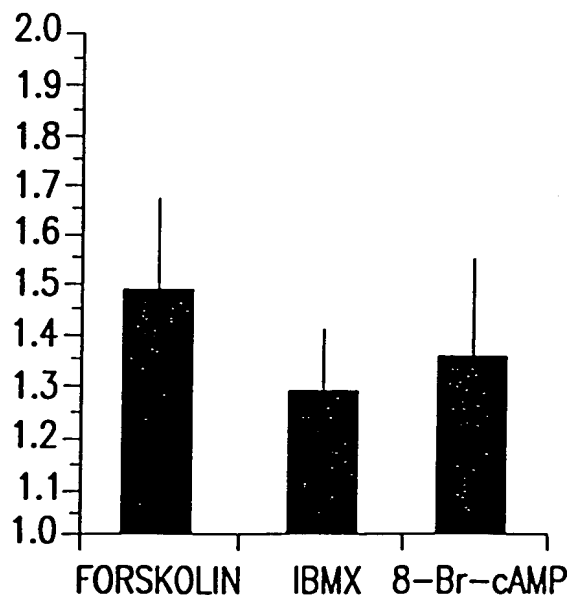


FIG.14

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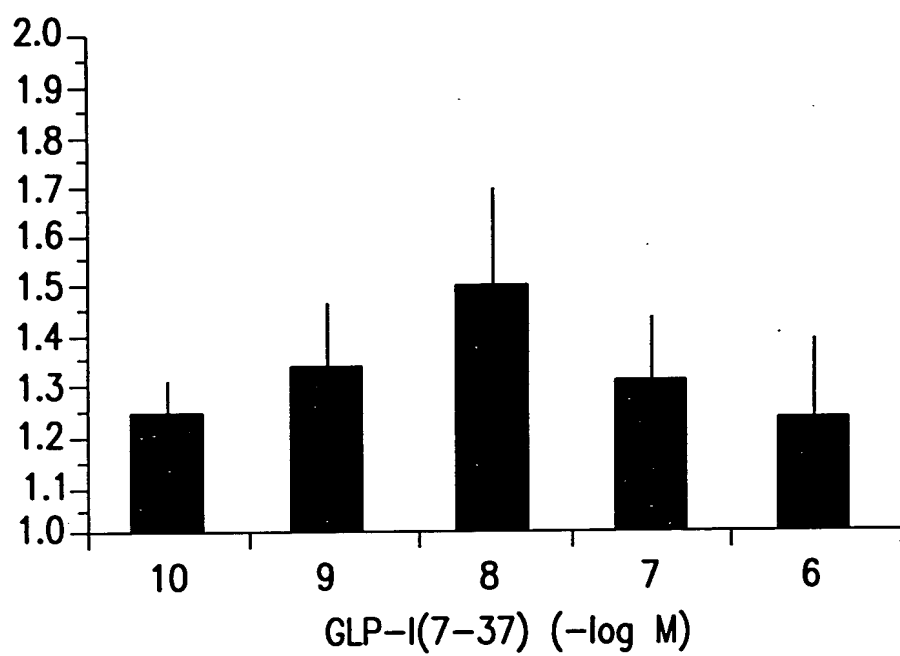
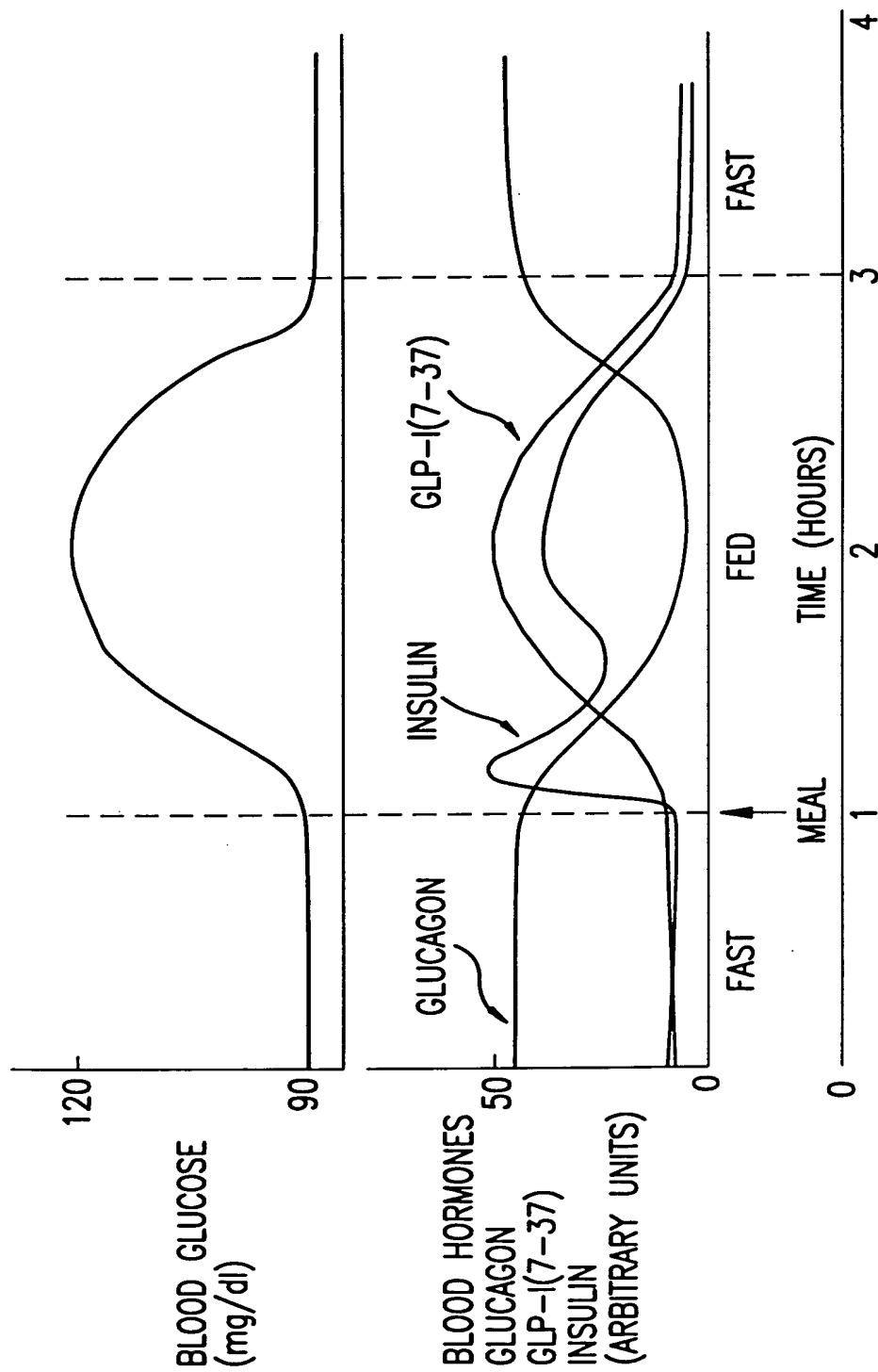


FIG.14A

[illegible]

**FIG. 15**



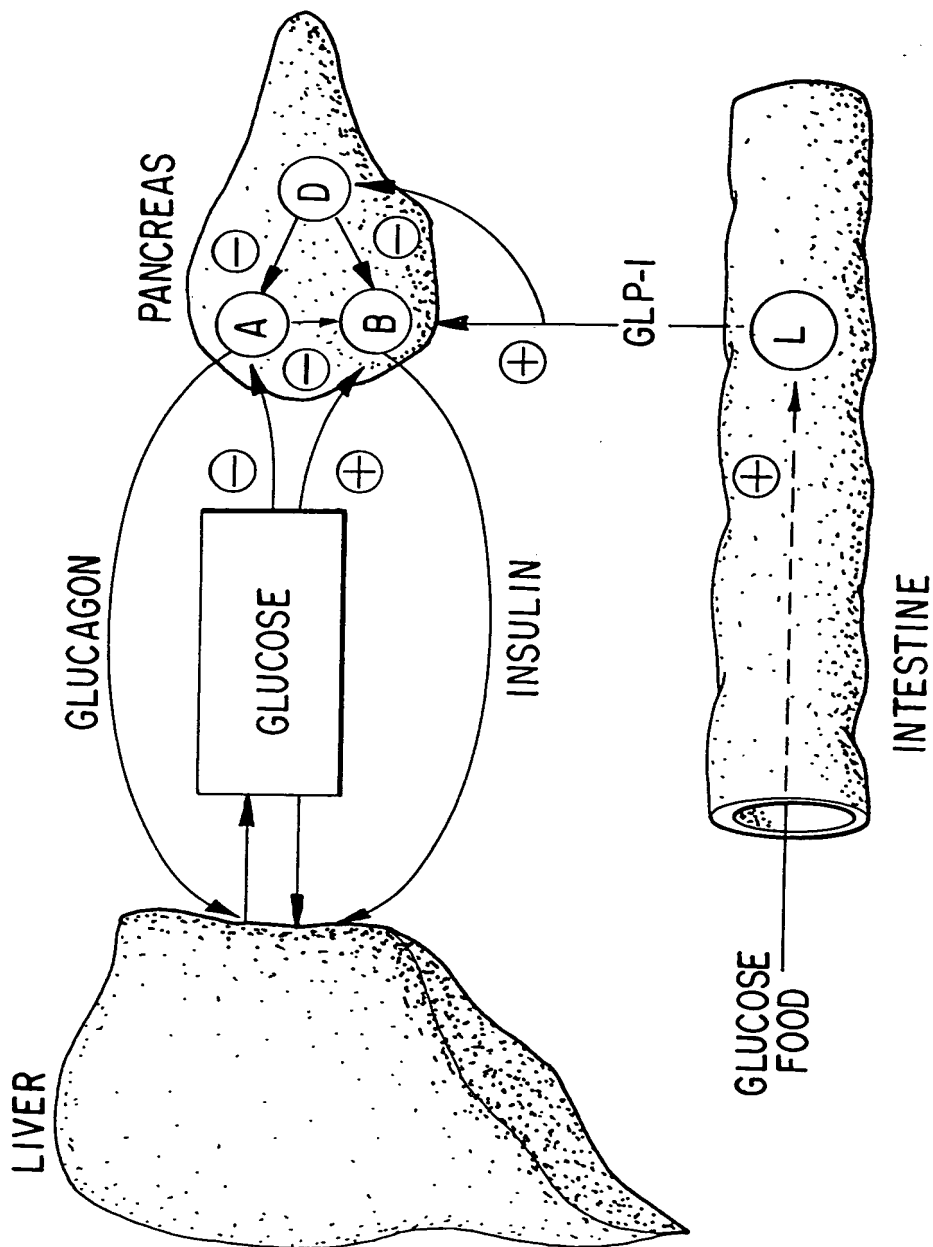


FIG. 16